

CLAIMS

1. A composition comprising the product obtained by blending to homogeneity:

(A) 100 parts by weight of a polyorganosiloxane containing at least two alkenyl radicals
5 per molecule;

(B) an organohydrogensiloxane containing at least two silicon-bonded hydrogen atoms in each molecule, in a quantity sufficient to provide from 0.5 to 3 silicon-bonded hydrogen atoms per alkenyl radical in ingredient (A);

(C) from 50 to 2,000 parts by weight of finely divided silver particles pre-treated with an
10 organosilicon compound selected from the group consisting of (i) silanes containing at least one alkoxy group and (ii) organosiloxanes;

(D) an amount sufficient to promote curing of said composition of a platinum catalyst;

(E) up to 20 weight percent, based on the weight of component (A), of ingredient (E), an organosilicon compound containing at least one silicon-bonded alkoxy group per molecule; and

15 (F) 0.001 to 5 weight parts, per 100 weight parts of ingredient (A), of a cure inhibitor.

2. The composition of claim 1, where ingredient (C)(ii) comprises:

(a) a siloxane oligomer,

(b) a linear polyorganosiloxane,

20 (c) a cyclosiloxane,

(d) a siloxane resin, and

(e) a mixture thereof.

3. The composition of claim 1, where ingredient (C)(ii) comprises a siloxane oligomer selected
25 from the group consisting of:

(a) a silanol endblocked dimethylsiloxane oligomer,

(b) a silanol endblocked dimethylsiloxane/methylvinylsiloxane co-oligomer,

(c) a silanol endblocked methylvinylsiloxane oligomer,

(d) a silanol endblocked methylphenylsiloxane oligomer, and

30 (e) a mixture thereof.

4. The composition of claim 1, where ingredient (C)(ii) comprises a linear polyorganosiloxane selected from the group consisting of:

- (a) a trimethylsiloxyl endblocked polydimethylsiloxane,
- 5 (b) a trimethylsiloxyl endblocked dimethylsiloxane/ methylvinylsiloxane copolymer,
- (c) a trimethylsiloxyl endblocked dimethylsiloxane/ methylphenylsiloxane copolymer,
- (d) a trimethylsiloxyl endblocked polymethylhydrogensiloxane,
- (e) a trimethylsiloxyl endblocked dimethylsiloxane/ methylhydrogen siloxane copolymer,
- (f) a silanol endblocked polydimethylsiloxane,
- 10 (g) a silanol endblocked dimethylsiloxane/ methylvinylsiloxane copolymer,
- (h) a silanol endblocked dimethylsiloxane/ methylphenylsiloxane copolymer,
- (i) a silanol endblocked polydimethylhydrogensiloxane,
- (j) a silanol endblocked dimethylsiloxane/ methylhydrogensiloxane copolymer,
- (k) a dimethylvinylsiloxyl endblocked polydimethylsiloxane,
- 15 (l) a dimethylvinylsiloxyl endblocked dimethylsiloxane/ methylvinylsiloxane copolymer,
- (m) a dimethylvinylsiloxyl endblocked dimethylsiloxane/ methylphenylsiloxane
copolymer,
- (n) a dimethylhydrogensiloxyl endblocked polymethylhydrogensiloxane,
- (o) a dimethylhydrogensiloxyl endblocked dimethylsiloxane/ methylhydrogensiloxane
20 copolymer, and
- (p) a mixture thereof.

5. The composition of claim 1, where ingredient (C)(ii) comprises a cyclosiloxane selected from the group consisting of 1,3,5,7-tetramethylcyclotetrasiloxane; 1,3,5,7,9-
25 pentamethylcyclopentasiloxane, and a mixture thereof.

6. The composition of claim 1, where ingredient (E) comprises an alkoxysilane selected from the group consisting of:

- (i) tetramethoxysilane,
- 30 (ii) tetraethoxysilane,

- (iii) dimethyldimethoxysilane,
- (iv) methylphenyldimethoxysilane,
- (v) methylphenyldiethoxysilane,
- (vi) phenyltrimethoxysilane,
- 5 (vii) methyltrimethoxysilane,
- (viii) methyltriethoxysilane,
- (ix) vinyltrimethoxysilane,
- (x) allyltrimethoxysilane,
- (xi) allyltriethoxysilane,
- 10 (xii) 3-glycidoxypropyltrimethoxysilane,
- (xiii) 3-methacryloxypropyltrimethoxysilane, and
- (xiv) a mixture thereof.